

## PHYSICS 201: Fall '94

**Prerequisites :** Calculus (Math 221 or equivalent).

**Materials needed :** Text: R.A. Serway, Physics for Scientists & Engineers, 3<sup>rd</sup> ed. *Updated Ver.*  
Laboratory Manual: Rollefson and Richards, Laboratory Experiments in General Physics, 1994 edition.

Laboratory notebook: Spiral bound, preferably with 5 or 6 mm cross hatched ruling. Bring to first laboratory meeting.

Calculator: Must have trigonometric, exponential, and logarithmic functions. Know how to use it and be sure that batteries are charged for exams.

**Lectures :** The lectures are to supplement, not substitute for, reading and studying the text. They will be shared by Profs. Roesler and Smith

**Laboratory :** Follow the "General Instructions" in the laboratory manual (pages 1-3). The experiments are to be written up during the laboratory period in the lab notebook. The lab notebook is not to be taken from the laboratory. **YOU MUST COMPLETE AT LEAST 10 OF THE 11 LABORATORY ASSIGNMENTS IN ORDER TO RECEIVE CREDIT FOR THE COURSE.** You must get written permission from *only your* lab T.A. to take a make-up lab. Make up time is given for the labs covered in each exam period during the week of the exam only.

**Homework :** The homework problems are assigned in the syllabus for each week and should be handed in at the first meeting of your discussion section after week of the assignment. Homework will count toward your grade. Feel free to discuss the homework with others. The solutions will be explained in your discussion section and will be available in the Physics Library.

**Discussion Section :** There will be a weekly 10-minute quiz consisting of a problem similar to one of the homework problems you have solved.

**Office Hours :** Teaching Assistants will have office hours in the consultation room (1402 Sterling Hall). You may go to the office hours of any T.A. Profs. Roesler and Smith will have office hours from 11 am to noon, Tues. and Thurs or by appointment.

**Examinations :** DO NOT REGISTER FOR THIS COURSE IF YOU ARE NOT SURE THAT YOU WILL BE ABLE TO ATTEND ALL EXAMS. (*i.e. do not take a course that meets or has exams on Sept. 28, Oct. 24, Nov. 21 at 5:55 - 6:55 PM, or a Final at 7:45 AM on Dec. 21*). Makeup exams will not be given. The average of the other exam scores will be substituted for the missing exam, *provided* you have a written excuse from a physician, dean, or academic advisor only. There will be three one hour exams on the dates shown above at 5:55 pm. Rooms to be announced. You may bring one 5" x 8" card (crib sheet) to each exam.

**Grading :** The course grade will be made up of 75% exams (15% for each hour of examination) and 25% discussion, homework and labs.

Wesley Smith  
4275 Chamberlin, 262-4690  
wsmith@wishep.physics.wisc.edu

Fred Roesler  
B621 Sterling, 262-1495  
roesler@wisp.physics.wisc.edu

Phys. 201 Week	Date (1994)	Chapter	Lab Topic	Homework
1	R Sep. 1	Chapter 1	No Lab	2,14,26,32,42
2	T 6	Chapter 2	M-1	4,15,24,29,46
	R 8	Chapter 3		9,16,31,48,70
3	T 13	Chapter 4	M-2	10,34,36,43,56
	R 15	Chapter 5		11,25,26,30,32
4	T 20	Chapter 5	M-4	38,39,43,52,54,62
	R 22	Chapter 6		8,10,15,20
5	T 27	Chapter 6	Make-up	34,36,38,52
	W 28	EXAM 5:55 pm Ch 1 - 5		
	R 29	Chapter 7		8,16,20,25,43,48
6	T Oct. 4	Chapter 7,8	M-10	54,57,70,(8)-1,10
	R 6	Chapter 8		12,22,25,36,49
7	T 11	Chapter 9	M-5	12,18,28,40,83
	R 13	Chapter 10		5,12,18,24,41
8	T 18	Chapter 10,11	M-6	28,29,34, (11)-1,4,7
	R 20	Chapter 11		20,28,33,34
9	M 24	EXAM 5:55 pm Ch 6 - 10		
	T 25	Chapter 11	Make-up	36,48,54
	R 27	Chapter 12		6,10,18,22,34,35,38
10	T Nov. 1	Chapter 12,13	M-9	28,32, (13)-3,10,16
	R 3	Chapter 13		18,22,29,39,46
11	T 8	Chapter 14	M-7	10,15,20,30,42
	R 10	Chapter 14,15		44,54,(15)-12,13,23
12	T 15	Chapter 15	M-15	30,35,40,44,47
	R 17	Chapter 19		2,32,42,50,66
13	M 21	EXAM 5:55 pm Ch 11 - 15		
	T 22	Chapter 19	Make-up	
14	T 29	Chapter 20	H-2	3,12,19,32,37
	R Dec. 1	Chapter 20,21		46,74,(21)-6,7,12
15	T 6	Chapter 21	H-4	20,29,38,48
	R 8	Chapter 22		3,14,18,20,27,49
16	T 13	Chapter 22	Make-up	
	R 15	Review		
	W 21	FINAL EXAM 7:45 am Ch 1 - 22		